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Nicholas R. Jenkins

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Summary

I am a data scientist with expertise in statistical modeling, data analysis, data visualization, research design, and in communicating complex topics to a broad audience. In my academic research, I have fielded large-scale surveys, survey experiments, and worked with large-N observational data to model the behavior of both politicians and voters in the United States.

📊 Skills

📶 Statistics

Causal Inference – Machine Learning – Experimental Design – Bayesian Statistics – Time Series Analysis – Text Analysis

</> Coding

® (tidyverse, tidymodels, brms, sparklyr) – 🐍 Python (numpy, pandas, statsmodels, scikit-learn, matplotlib, seaborn) – Stan – SQL

🔧 Other

git/⬡ – M↓ – RMarkdown – Jupyter Notebooks – LaTeX – Public Speaking – Teaching

🏢 Professional Experience

Data Scientist

General Motors   *02/2023 – Present*

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Part-time Consultant - Graduate Quantitative Methods Center   *Riverside, CA*

University of California, Riverside   *10/2021 – Present*

- Help graduate students with **statistics, statistical software, data wrangling, and data visualization**.
- Develop and teach workshops on **R programming and statistical methods**. Developed workshops include **Bayesian Data Analysis**, **Generalized Linear Models**, **Git and GitHub**, **Time Series Analysis**, and **Data Visualization with** ggplot.

Teaching Assistant - Departments of Political Science, Economics, & Public Policy   *Long Beach & Riverside, CA*

California State University, Long Beach & University of California, Riverside   *08/2015 – Present*

- Advise Master of Public Policy (MPP) students on **data collection, cleaning, visualization, and analysis** for their capstone projects.
- **Developed an intro to working with data in R boot camp** for incoming MPP students.
- **Developed a data science workshop** for second-year MPP students introducing them to the data science process.
- Designed a policy evaluation project for a policy analysis class to **guide students through the process of data cleaning, data visualization, plotting maps, descriptive analysis, and causal inference techniques** for analyzing public policies.

📄 Selected Projects

Helping Patients Predict Insurance Copayments

Uses R's **tidymodels** and Python's **scikit-learn** to:

- Predict the patient's expected cost of a prescription drug and the formulary status of the medication, which is used to sort drugs into tiers such as generic, preferred non-generic, non-preferred non-generic, etc. https://nicholasrjenkins.science/project/drugs/

Do Small-dollar Donations educe Corporate Influence in Elections?

Uses Bayesian multivariate models to:

- Estimate the impact of no corporate PAC pledges on donations from small-dollar donors and test for a substitution effect between donations from corporate PACs and small-dollar donors. https://nicholasrjenkins.science/project/pacs_sm_dlrs/

🎓 Education

Ph.D. in Political Science   *Riverside, CA*

University of California, Riverside   *2022*

M.A. in Economics   *Long Beach, CA*

California State University, Long Beach   *2017*